Datasheet: MCA5941GA

Description:	MOUSE ANTI SHEEP IgE
Specificity:	IgE
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	1E7
Isotype:	IgG2a
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
ELISA	▪			1/500 - 1/2000
Immunoprecipitation			▪	
Western Blotting	▪			
Immunofluorescence	▪			

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species

Sheep

Species Cross Reactivity

Reacts with: Goat
Does not react with:Horse, Human
N.B. Antibody reactivity and working conditions may vary between species.

Product Form

Purified IgG - liquid

Preparation

Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.09% Sodium Azide (NaN_3)

Approx. Protein Concentrations

IgG concentration 0.5 mg/ml

Immunogen

Recombinant ovine IgE1-2 expressed in *E.coli*

Specificity	**Mouse anti Sheep IgE, clone 1E7**, recognizes ovine Immunoglobulin E (IgE) and does not cross react with ovine IgM, IgA, IgG1 or IgG2. IgE is an immunoglobulin primarily produced from plasma cells and, in normal serum, present at very low concentrations. Western blot analysis against affinity purified ovine IgE using Mouse anti Sheep IgE clone 1E7 demonstrates a single major band of approximately 80 kDa under reducing conditions, and a band at approximately 200 kDa is observed after electrophoresis under non-reducing conditions. These bands correspond with the expected molecular weights of the epsilon chain and the complete ovine IgE molecule (Kooyman, F.N. *et al.* 1997). IgE is in important in both type 1 hypersensitivity and immunity to parasite infections, in particular parasitic worm infections. Mouse anti Sheep IgE, clone 1E7 has been used in a number of studies involving parasite nematode infections of sheep by *Haemonchus contortus* (Vervelde, L. *et al.* 1997 and Kooyman, F.N. *et al.* 1997). Clone 1E7 has also been reported to recognize bovine IgE, and, as such, it is useful for studies of infection in cattle by nematode worms such as *Dictyocaulus viviparus* (Bricarello, P.A. *et al.* 2007 and Kooyman, F.N. *et al.* 2002). In addition to this specific anti IgE monoclonal antibody, monoclonal antibodies specific to both bovine and ovine, IgA, IgM and IgG subclasses are available from Bio-Rad.
References	1. Bricarello, P.A. *et al.* (2007) Field study on nematode resistance in Nelore-breed cattle. Vet Parasitol.148:272-8 2. Vervelde, L. *et al.* (2003) Vaccination-induced protection of lambs against the parasitic nematode *Haemonchus contortus* correlates with high IgG antibody responses to the LDNF glycan antigen. Glycobiology 13:795-804 3. Kooyman, F.N. *et al.* (2002) Serum immunoglobulin E response in calves infected with the lungworm *Dictyocaulus viviparus* and its correlation with protection. Parasite Immunol. 24:47-56 4. Kooyman, F.N. *et al.* (1997) Production of a monoclonal antibody specifc for ovine immunoglobulin E and its application to monitor serum IgE responses to *Haemonchus contortus* infection. Parasitology 114:395-406
Storage	Store at +4^{o}C or at -20^{o}C if preferred. This product should be stored undiluted. Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
Guarantee	18 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos., HRP
Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800

Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC, HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Human Anti Mouse IgG2a (HCA037...)	FITC, HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos., DyLight®488, DyLight®680, DyLight®800, FITC, HRP

Recommended Useful Reagents

MOUSE ANTI BOVINE IgG1 (MCA627GA)
MOUSE ANTI BOVINE IgA (MCA2438GA)
MOUSE ANTI BOVINE IgA:HRP (MCA2438P)
MOUSE ANTI BOVINE IgG (MCA2439GA)
MOUSE ANTI BOVINE IgG1 (MCA2440GA)
MOUSE ANTI BOVINE IgG:HRP (MCA2439P)
MOUSE ANTI BOVINE IgG1:HRP (MCA2440P)
MOUSE ANTI BOVINE IgG2 (MCA2441GA)
MOUSE ANTI BOVINE IgG2:HRP (MCA2441P)
MOUSE ANTI BOVINE IgM (MCA2443GA)

North & South America
Tel: +1 800 265 7376
Fax: +1 919 878 3751
Email: antibody_sales_us@bio-rad.com

Worldwide
Tel: +44 (0)1865 852 700
Fax: +44 (0)1865 852 739
Email: antibody_sales_uk@bio-rad.com

Europe
Tel: +49 (0) 89 8090 95 21
Fax: +49 (0) 89 8090 95 50
Email: antibody_sales_de@bio-rad.com

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